

X14A SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
Rev: C	Effective: 5/24/2010	Page 1 of 1	Number: LS-SCL-0030
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Original signatures on file.

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- 1. Valid Padlock Index and Log, no padlocks open
- 2. Bremsstrahlung shield (BS #1) imbedded in the concrete shield wall
- 3. Exclusion zone # 1 and lead-glass cover on Viewport #1 under the slit ensemble in place and secure.
- 4. Exclusion zone # 2 (on top of the slit control feeder) in place and secure
- 5. Lead shielding on bellows shield #1 (upstream of mirror tank) as per photo.
- 6. Lead shielding on Mirror tank in place as per photo
- 7. Lead shielding on Bellows #2 as per photo.
- 8. Exclusion zone # 3 (extending from bellows shield #2 to Bremsstrahlung shield #2) in place and secure.
- 9. Leaded glass on Viewport # 3 (located on the 4-way cross downstream of Be window).
- 10. Exclusion Zone # 4 in place and secure.
- 11. Bremsstrahlung shield #2 (mounted on the stand upstream of the monochromator see photo).
- 12. Lead-glass covers Viewport #4 (located on the upstream side of the monochromator tank).
- 13. Lead-glass covers Viewport #5 (located on the X13 side of the monochromator tank).

Checkpoints 14 and 15 are on X15 side

- 14. Lead-glass covers Viewport #6 (located on the X15 side of the monochromator tank).
- 15. Bremsstrahlung shield #3 (mounted on the stand downstream of the monochromator see photo).

OPCO / Beamline Staff: _____ Date: _____

User System Checks

- A. Isolation Valve V1A is unsealed and in the Open position.
- B. Monochromator pressure must be no greater than 100 milli-torr (pressure gauge located in electronics rack on the X15 side of beamline, midway between the monochromator tank and the hutch).

Beamline Rep.: _____ Date: _____